

ABCC11	~~~~~	~~~~~MTR	KRTYWPNSS	GGLVNRGDI	ODDMVSGLIY	KTYTQIGPM	SOQRNPHAR	GRAAVPEWCK	YDAALREMIIP	FRBKPRFPAP	QBLDNAGLES
ABCC12	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	RRSFAE..R	YDPSLKTMIIP	VRPCARL.AB	NPVDDAGLIS
ABCC5	MKDIDIGKEY	IIPSPGYRSV	RERTSTSGTH	RDRDSKFR	TRPLEQDAL	ETAARAEGLS	LDASMHSQLR	ILDEEHRKCK	MHGLSALKE	IRTTSKHQ..	HEVDNAGLES
ABCC11	YLVSWLTPL	MIQSLRSRI	DENTIPPLSV	HDASDKNVOR	LHRLWEEEMS	RRGIEKASVL	LVMLRFQRT	LTFDALLGIC	FCIASVIGPI	LIMPKTLEYS	EEQIGNVVHG
ABCC12	FAPFVSWLTPV	MVKGYRQRI	TVDTLPPLST	YDSSDTNAKR	FRVLWDEEVA	RVGPEKASUS	HVVWKQFQRT	VLMDIVANTL	CITMAAIGPV	ILTHQILQCH	ERTSCKVMVG
ABCC5	CMTFESWLSLS	ARVAHKKGEL	SMEDVWSLSK	HESSDVNCRR	LERLWQEEEN	EVGPDAASER	RVAWIECRTR	LILSIVCLMI	TQLAGFSQPA	FMVKHLLEYI	QAHESNLQYS
ABCC11	VGLCFALRLS	ECVKSLSFSS	SWIINORTAI	RFRAAVSSFA	FEKLIQEKSV	IHTTGEATS	FFTGDVNYLR	EGVCYGPVLV	ITCASLVIGS	ISSYFTIGYT	AFIAULCYLI
ABCC12	IGLCIALPAT	ERTKVFFWAI	AWALNYRTAI	RIKVALSTLV	FENLVSEKTL	THISVGEVLN	ILSSDSYSER	EAALFCRPPA	TIPILMVFOA	AYAFFILGPT	ALIGISVYVI
ABCC5	LILVLGLILIT	ETMRSWSLAI	TWALNYRTGV	RIKAILTMA	EKKILKIKNI	KEKSLGELTN	ICSNDGORME	EAAGVGSILA	GGRVAILGM	IXNVILLEGPT	GELGSAVFII
ABCC11	VFPLAVFMTR	MAVKAQHHTS	EVSDQIRIVT	SEVLTCKIKLI	KMYTWKPEFA	KITIEDLRKE	RKLIKEKGLV	OSLTSITLFI	IPHVATAWV	LIHTSLKIKLI	TASMAFSMLA
ABCC12	FIPVQMFMAK	INSAFRRSAL	LVTDKRVQTM	NEFITCIRLI	KMYAWEKSET	NTIQDIRRE	RKLIKEKAGFV	QSGNSALAPI	VSTIAIVLTL	SCHILLRRKL	TAPVAFSVIA
ABCC5	FYPAMMEASR	LTAYFRKCV	AATDERVQKM	NEVLTVIKFI	KMYAWVKAES	QSVQKIREEE	RRILEKAGYF	OGIEVGVAPI	MVVIASVVTF	SVHMTLGFDT	TAAQAFTMVT
ABCC11	SLNLLRLSVF	FVRIAVKGLT	NSKSAYMREK	KFFLOESPVF	YVQTLQDBSK	ALVFEEATLS	WQ.....QT	CEGIV.....	.....NGAL	EL...ERNGH	ASEGMRPRD
ABCC12	MFNVMKFSIA	ILPFSIKAMA	EANVSLRRMK	KILLDKSPPS	MITQPEDPDT	VILLANATLT	WEHEASRKSH	PKKLQ.....	.....NQKR	HLCKORSEA	YSERSPPAKG
ABCC5	VFNSMTFALK	VTPEFSVKSJS	EASVAVDREK	SLFLMEEVHM	IKNKPASPHI	KIEMKNATUA	WDSSHSSION	SPKLTPKMKK	DKRASRGKKE	KVRQLORTEH	QAVLAEQKGH
ABCC11	AL.....G	PEEEGNS...	.....LGPEL	HKINLVWSKG	MMIGVCGNTG	SGKSSILISAI	LEEMHLEBGS	VGVOGSLAYV	POQAWIVSGN	IRENILLMGA	YD.....KA
ABCC12	AT.....G	PEEQSDS...	.....LKSVL	HSTSFVVRKG	KILGICGNVG	SGKSSLLAAL	LGOMLOKQGV	VAVNGTLAYV	SOQAWIFHGN	VRENTLEGEK	YDHORYOHTV
ABCC5	LILDSDERPS	PEEEEGKHIH	LGHRLQRTLI	HSTDEIQEG	KLVGICGSVG	SGKTSILISAI	LGOMTLEGS	IAISGTFAYV	AQQAUILNAT	LRDNILFGKE	YDEERYNSVL
ABCC11	RTPGCACCLD	MVPFTACLQI	GERGLNLGG	QKQRI SLARA	VYSDRQIYLL	DDPLSAVDAH	VGKHI FEECH	KKTLRGKTIV	LVTHOLOYLE	FCGQITULEN	GKICENGTHS
ABCC12	RVGGLQKDL	NLPYGDLTEI	GERGLNLGG	QKQRI SLARA	VYSDRQIYLL	DDPLSAVDAH	VGKHFEECH	KKTLRGKTIV	LVTHOLOYLE	SCDEVILLED	GEICEKGTHK
ABCC5	NSCCLRPDIA	ILPSSDLTEI	GERGANLGG	QKQRI SLARA	LYSDRSTYIL	DDPLSALDAH	VGNHIFNSAI	RKHLKSKTVL	FMTHOLOYIV	DCDEVIFMKE	GCITERGTHE
ABCC11	ELMQKKGKYA	QLIQM....	.....H....	.....KEAT	SDMLQDTAKI	AEKPKVE..SQ	ALATSLEBSL	NGNAVPEHQL	TOEEEMEES	LSWRVYHHYI	QAAGGYMVSC
ABCC12	ELMEERGRIA	KLIHNLRLGLO	FKDPEHLYNA	AMVEAFKESP	AEREEDAGII	VLAPEGNEKDE	GKESETGSEF	VDTKVPEHQL	IQTESPOEGT	VTWKTYHTYI	KASGGYLLSL
ABCC5	ELMNLNGDYA	TIFNNLL.EG	ETPPEVINSK	KETSGSQKKS	QDKGPKTGSV	KKEKAVKPEE	G.....G	.....QL	VQLEEKQGS	VPMSVYGVYI	QAAGGPIAFL
ABCC11	ITFFVFLIIV	PLTIFSPWWL	SYWLEQSGST	NSSRESNGTM	ADLGNADNE	QLSPYQLVYG	LNALLICVG	VCSSGIEFTKV	TRKASTADHN	KLENKVFRCE	MSFFDTIPIG
ABCC12	FTVFLFLIMI	GSAAFSNWWL	GLWLDKGRM	TCGPQGNRTM	CEVCAVLADI	GOHVQWVYT	ASMVFMLVFG	VTKGFWETKT	TLMASSSLHD	TVFDKTLKSP	MSFFDTIPTG
ABCC5	VIMALEMINV	GSTAFSTWWL	SYWIKQSGSN	TTVTRGNETS	VS.DSMKDNP	HMQYASIVA	LSMAVNLILK	AIRGVVEJVG	TLRASSRLHD	ELERRILRSP	MKFFDTIPTG
ABCC11	RLNCFAGDL	BQLDQLRPIF	SEQFEVLSLM	VIAVLIVSV	LSBYILLMGA	IIMVICTEY	MMFKKATGVF	KRLNYSRSP	LFSHILNSLO	GLSSHVYVK	TEDEISQFKR
ABCC12	RLMNRFSKOM	DELDVRLPEH	ABNFQQOFFM	VRLIVILAA	VEPAVLVVA	SLAVGERILL	RIEHRGVQEL	KKVENVSRSP	WETHITSSMO	GLGILHAYGK	KESCLTY...
ABCC5	RLNRFSDKM	DEVDVRLPEQ	ABMFIQNVIL	VFEICVGMIA	VEPWFLVAVG	PLVILSVLH	IVSRVLAREL	KRIDNITQSP	FLSHITSSIO	GLATIHAYNK	GOEELHRYQE
ABCC11	LTDAQNNYLL	LELSSTRWMA	LRLEIMTNLV	TLAVALFVAF	GISSTEYSFK	VMANVILQL	ASSFOATARI	GLETEAQFTA	VERILOVMKM	CYSEAPLHME	GTSCPCQWPC
ABCC12	.....HLL	YFNCALRWFA	LRMDVLNML	TFTVALLVTL	SFSSISTSSK	GLSLSYIIQL	SGHLOVCVRT	GTEAQKFTS	VELLREXTST	CYPECTHPLK	VGTCPCDWPS
ABCC5	LDDNQAPFF	LEFTCAMRWLA	VRLDLISIAL	ITITGLMIVL	MHGQIEPAYA	GLAISYAVQL	TGLFOFTVRL	ASETEARFTS	VERINHYIKI	LSLEAPARIK	NKAPSPDWPC
ABCC11	HGEIIFQDYH	MKYRDNTPTV	PHGINLTIRG	HEVVGIVGRT	GSQKSSLGMA	LFRIVEPMAG	RILLJGDVDIC	SGLEDLRSK	LSVJPODPVL	LSGTIRFNLD	PEDRHTDQOI
ABCC12	CGEITFRDYQ	MRYRDNTPLV	LDSLNLNIQS	QGTVGIVGRT	GSQKSSLGMA	LFRIVEPASG	TIFIDEVDIC	ILSLEDIRTK	LTVJPODPVL	FVGTVRYNLD	PFESHTDEMIL
ABCC5	EGEVTENAE	MRYRENIPLV	LKKVSFTIKP	KEKIGIVGRT	GSQKSSLGMA	LFRIVELSGG	CIKIDGVRLS	DIGIADLRSK	LSIHPQEPVL	FSGTVRSNLD	PENQYTEDOI
ABCC11	WDALERTFELT	KATSKFPKKLI	HTDVVENGDN	FVSGERQLIC	TARAVERNSK	JLILDEATAS	IDMETDTLTO	RTIREAFQCC	TVLIVIAHRVT	TVLNCDHILV	MNGKQVVEED
ABCC12	WOVLERTFMR	DTIMKLEKLI	QAEVTENGDN	FVSGERQLIC	VARALERNSK	JLILDEATAS	MDSKDTTVO	NTIKDAFKGC	TVLITIAHRLN	TVLNCDHVLV	MENGKVIIEFD
ABCC5	WDALERTHMK	ECTAQPLKLI	ESEVMENGDN	FVSGERQLIC	TARALLRHCK	JLILDEATAA	MDTETDLTIO	ETIREAEADC	TMLTIAHRLH	TVIGSDRIMV	LAQQQVVEED
ABCC11	RPEVTRKKPG	SLFAALMATA	TSSLR*~~~	FVSGERQLIC	TARAVERNSK	JLILDEATAS	IDMETDTLTO	RTIREAFQCC	TVLIVIAHRVT	TVLNCDHILV	MNGKQVVEED
ABCC12	KPEVIAEKPD	SAFAMLLAAE	VRL*~~~~~	FVSGERQLIC	VARALERNSK	JLILDEATAS	MDSKDTTVO	NTIKDAFKGC	TVLITIAHRLN	TVLNCDHVLV	MENGKVIIEFD
ABCC5	TPSVLLSND	SREYAMFAAA	ENKVAVKG*	FVSGERQLIC	TARALLRHCK	JLILDEATAA	MDTETDLTIO	ETIREAEADC	TMLTIAHRLH	TVIGSDRIMV	LAQQQVVEED

FIGURE 1

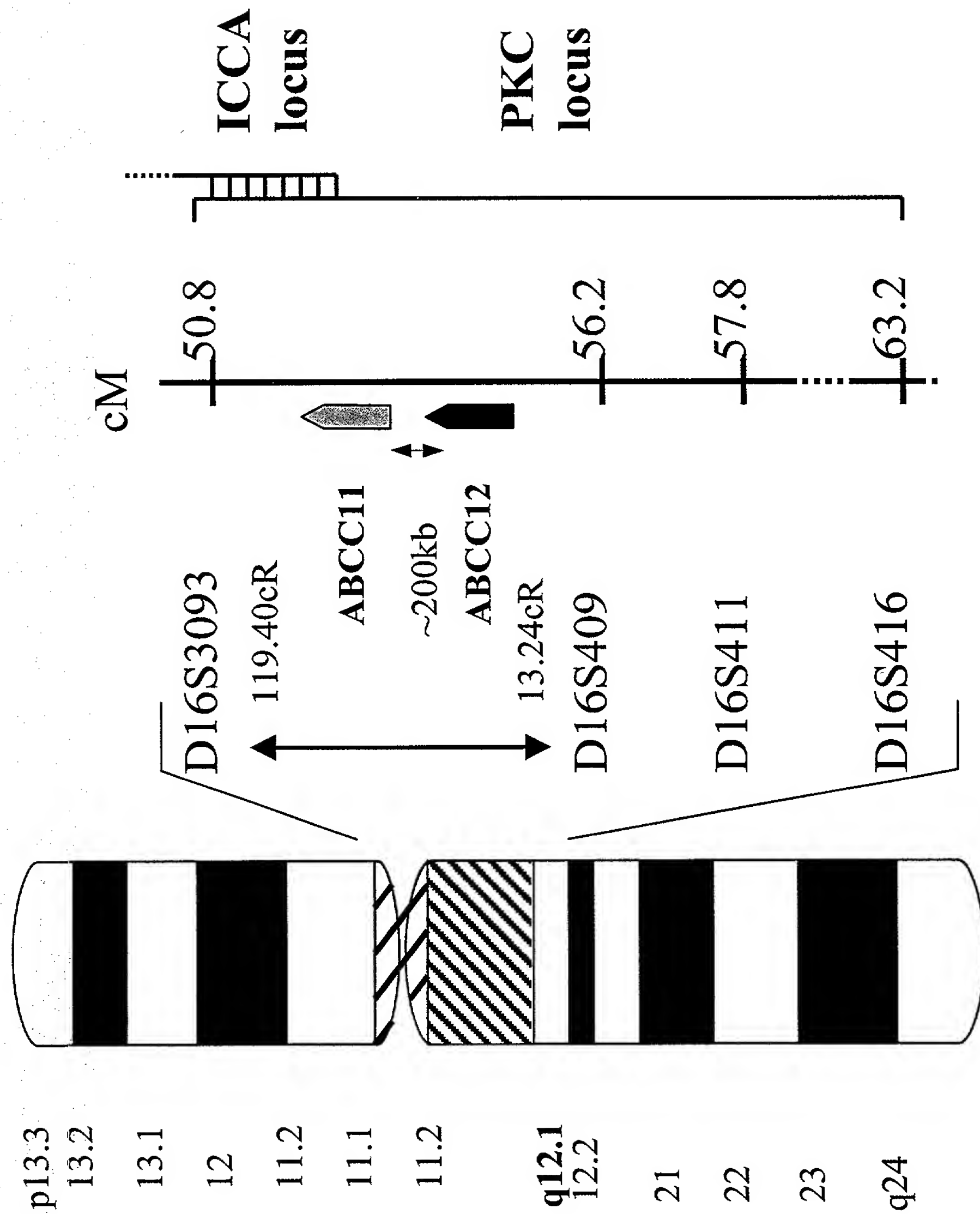


FIGURE 2

1000 bp
500 bp
250 bp
100 bp
50 bp
25 bp
10 bp
5 bp

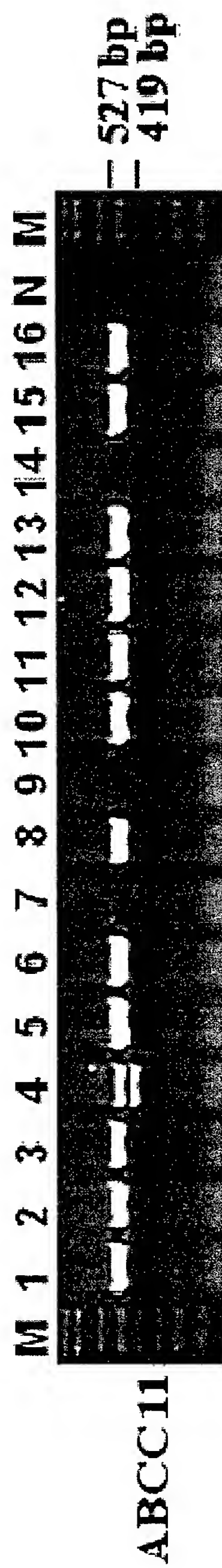


FIGURE 3

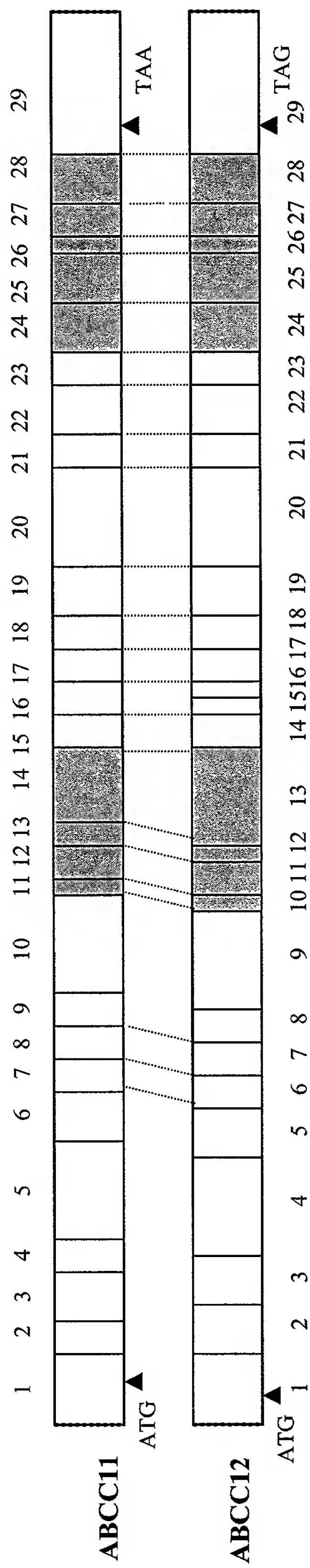


FIGURE 4

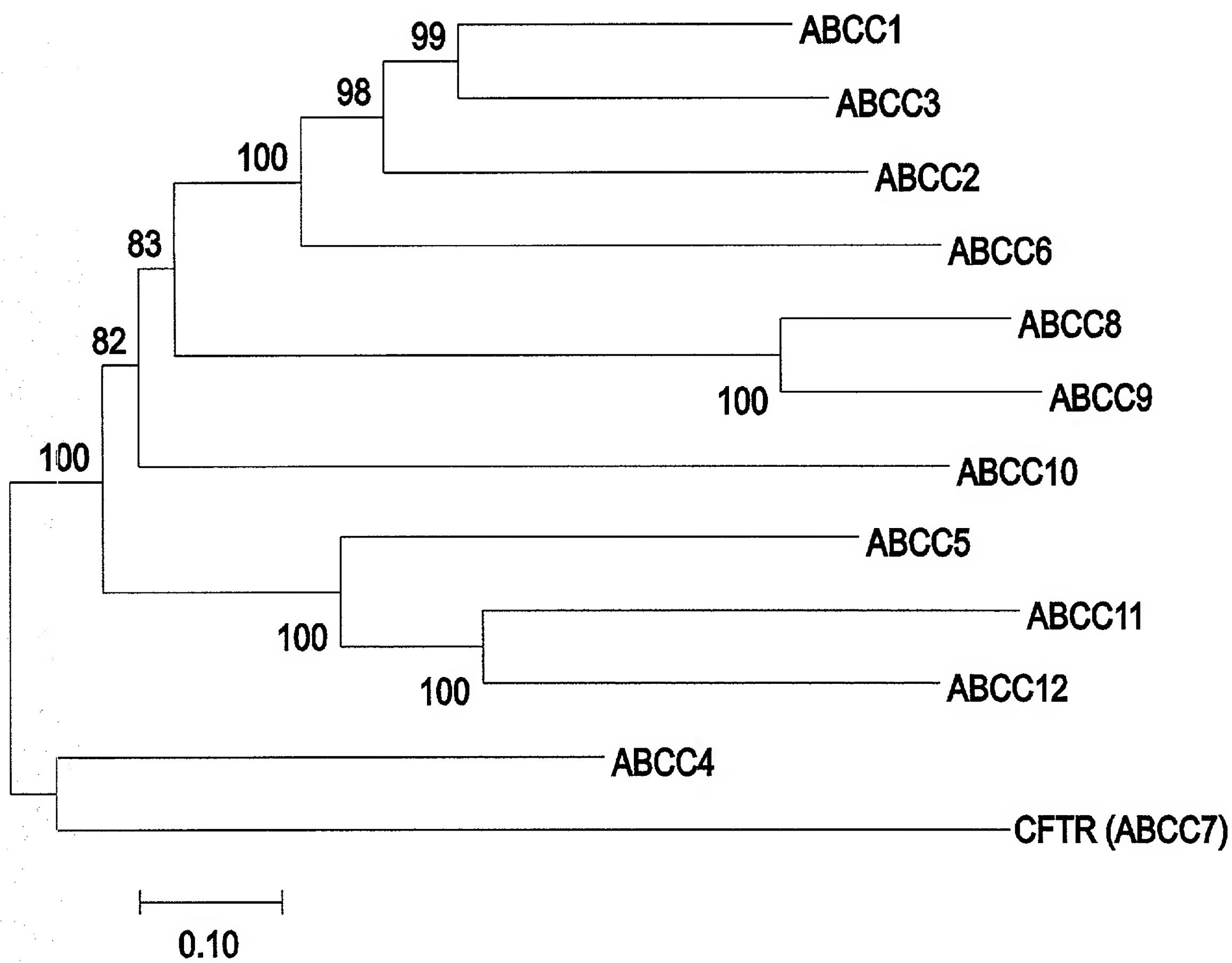


Figure 5